

In re application of:

Soo-Guy RHO, et al.

Appl. No. 10/676,667

Filed: October 1, 2003

Confirmation No.: 8980

For: LIQUID CRYSTAL DISPLAYS AND

LIQUID CRYSTAL DISPLAY SUBSTRATES USING AN ORGANIC INSULATING

MATERIAL

Art Unit: 2871

Examiner: T. Chowdhury

Atty. Docket: 6192.0356.C3

Information Disclosure Statement

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicants respectfully bring the following information listed on accompanying Form PTO-1449 to the attention of the examiner.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited by or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. §120. 1138 OG 37, 38 (May 19, 1992).

Applicants have checked the appropriate boxes below.

- 1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits OR before the mailing date of a first Office Action after the filing of a request for continued examination under 37 C.F.R. §1.114. No certification or fee is required.
- 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.
 - a. I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a

Applicant(s): Soo-Guy RHO, et al. Appl. No. 10/676,667

counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

- C.F.R. § 1.17(p).
- 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. It is hereby requested that the Information Disclosure Statement be considered.
 - a. I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1). Attached is our check in the amount of \$180.00.
 - b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- 4. Relevance of the non-English language document(s) is discussed in the present specification.
- 5. A concise explanation of the relevance of the non-English language document(s) appears below:
 - English language counterpart, U.S. Patent 5,187,602, is filed herewith for JP 7-181514.
- 6. The document(s) was/were cited in a corresponding foreign application. Attached is a copy of the International Search Report.

4 - Applicanus): Soo-Guy RHO, et al. Appl. No. 10/676,667

The Examiner's attention is directed to co-pending U.S. Patent Application No.
, filed, which is directed to related technical subject matter.
The identification of this U.S. Patent Application is not to be construed as a
waiver of secrecy as to that application now or upon issuance of the present
application as a patent. The Examiner is respectfully requested to consider the
cited application and the art cited therein during examination.
Copies of the documents were cited by or submitted to the Office in Application No.
, filed, which is relied upon for an
earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not
attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 23-1951.

Respectfully submitted,

Hae-Chan Park Reg. No. 50,114

Date: March 3, 2005

MCGUIRE WOODS LLP 1750 Tysons Boulevard, Suite 1800 McLean, VA 22102-4215 Telephone No. 703-712-5365 Facsimile No. 703-712-5280

CUSTOMER NO. 23345

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REFERENCE DE	SIGNATION	U.S. P	ATENT D	OCUMENTS		-		
EXAMINERS INITIALS	DOCUMENT NUMBER	DATE		NAME	CLASS	SUBCLASS		DATE PRO.)
	5,187,602	February 16,	1993	Ikeda et al				
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		FOREIGN	N PATENT	DOCUMENTS				
	DOCUMENT NUMBER	DAT	E	COUNTRY	CLASS	SUBCLASS	TRANSI YES	LATION NO
	7-181514	July 21,		JAPAN	G02F	1/136	\boxtimes	口
	6-59228 7-325306	March 4,		JAPAN JAPAN	G02F G02F	1/13		╁╬╴
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Rho et al.

Serial No.: To Be Assigned Filed: Concurrently Herewith

For:

LIQUID CRYSTAL DISPLAYS AND LIQUID CRYSTAL DISPLAY

SUBSTRATES USING AN ORGANIC INSULATING MATERIAL (as amended)

Date: October 1, 2003

BOX PATENT APPLICATION Commissioner for Patents Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Attached is a list of documents on form PTO-1449. Items 1-36 listed on the PTO-1449 were cited in parent application Serial No. 10/387,278, filed March 12, 2003. Because the benefit of this application is claimed under 35 U.S.C. §120, no copies of these items need to be furnished in accordance with 37 C.F.R. §1.98(d); however, copies will be furnished on request. It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. §1.97 and Section 609 of the MPEP.

Respectfully submitted,

D. Scott Moore

Registration No. 42,011

Customer No. 20792 Myers Bigel Sibley & Sajovec P. O. Box 37428 Raleigh, North Carolina 27627

Telephone: (919) 854-1400 Facsimile: (919) 854-1401

CERTIFICATE OF EXPRESS MAILING

"Express Mail" mailing label number: EV353592250US

Date of Deposit: October 1, 2003

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Traci A. Brown

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)

Attorney Docket Number 9649-479CTDVCT2

Serial No. To be assigned

Applicants: Rho et al.

Filing Date: Concurrently herewith

Group:

U.	S.	PAT	ENT	DOCU	JMENTS
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V 3			U.	S. PATENT DOCUMENTS	3		
Examiner Initial	in the second	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1	6,507,045 B2	1/14/03	Gu et al.	257	72	
	2	6,441,468B1	8/27/02	Yamazaki	257	642	ı
	3	6,188,452	02/2001	Kim et al.	349	043	
	4	6,160,598	12/2000	Lyu	349	111	
	5	6,122,025	09/2000	Kim	349	110	
	6	6,100,954	08/2000	Kim et al.	349	138	
	7	6,091,464	07/2000	Song	349	038	
	8	6,081,315	06/2000	Matsuyama et al.	349	143	
	9	6,038,008	03/2000	Kim et al.	349	138	
	10	6,001,539	12/1999	Lyu et al.	430	317	
	11	6,008,065	12/1999	Lee et al.	438	030	
	12	5,981,970	11/1999	Dimitrakopoulos et al.	257	040	
	13	5,970,318	10/1999	Choi et al.	438	099	
	14	5,926,235	7/20/99	Han et al.	349	43	
	15	5,903,326	05/1999	Lee	349	042	
	16	5,880,794	03/1999	Hwang	349	043	
	17	5,877,832	03/1999	Shimada	349	043	
	18	5,866,919	02/1999	Kwon et al.	349	042	
	19	5,859,683	01/1999	Tagusa et al.	349	044	
	20	5,854,663	12/1998	Oh et al.	349	042	
	21	5,852,481	12/1998	Hwang	349	043	
	22	5,847,781	12/1998	Ono et al.	349	043	
	23	5,818,551	10/1998	Park	349	043	
	24	5,818,549	10/1998	Maruyama et al.	349	042	
	25	5,781,254	07/1998	Kim et al.	349	044	
	26	5,781,253	07/1998	Koike et al.	349	040	
	27	5,719,422	02/1998	Burr et al.	257	345	
	28	5,643,817	7/1/97	Kim et al.	437	51	

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Comin	29	5,621,556	04/1997	Fulks et al.		349	042	
	30	5,327,001	07/1994	Wakai et al.		257	350	
	31	4,956,680	09/1990	Tanaka et al.		357	004	
	32	4,943,838	07/1990	Ukai		357	23.7	
	33	4,905,006	02/1990	Dohjo et al.		357	23.15	
		· •	FORE	IGN PATENT I	OCUMENTS			<u> </u>
		Document Number	Date	Cou	ıntry	Class	Subclass	Translation Yes No
	34	410041519A	02/1998	Japan		Ciass	Subclass	165 110
	35	409230384A	09/1997	Japan		 		
	36	406084946A	03/1994	Japan				
	37	402002174A	01/1990	Japan				
	38	401283937A	11/1989	Japan		<u> </u>		
	39	401259563A	10/1989	Japan	······································			
	40	63-177472	07/1988	Japan				
	41	EP0725301A1	8/7/96	EPO				
	42	EP0466495	1/15/92	EPO			-	
	43	JP 04-128823	4/30/92	Japan		-		
	44	JP9236825	9/9/97 .	Japan				
	45	JP 9279742	10/28/97	Japan				
	46	JP 1124824	5/17/89	Japan				
	47	JP 1103148	4/20/89	Japan	****			
	48	JP 4118627	4/20/92	Japan				
	49	JP 81793571	7/12/96	Japan				
	50	JP 4163528	6/9/92	Japan			·	
	51	JP 8166598	6/25/96	Japan				
	52	JP 5232459	9/10/93	Japan				
	53	JP 8015719	1/19/96	Japan	-			
	54	JP 6333919	12/2/94	Japan				
	- 55	JP 5074763	3/26/93	Japan				
	56	JP 6018928	1/28/94	Japan				
	57	JP 5119350	5/18/93	Japan				

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	59	JP 6011716	1/21/94	Japan							
		OTHER DO	CUMENTS (Including Auth	or, Title, Date, Pe	ertinent Pages, Et	tc.)				
	60	Notice of Rejec	Notice of Rejection, Japanese application no. 325008, April 10, 2003								
	61	Office Action;	Office Action; Chinese application no. 97122912.0, June 15, 2003.								

EXAMINER

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application of:

Docket No.: 6192.0356.C3

Soo-Guy RHO, et al.

Serial No.: 10/676,667

Group Art Unit: 2871

Confirmation No.: 8980

Filed: October 1, 2003

Examiner: CHOWDHURY, Tarifur R.

For: LIQUID CRYSTAL DISPLAYS AND LIQUID CRYSTAL DISPLAY

SUBSTRATES USING AN ORGANIC INSULATING MATERIAL

Mail Stop: Issue Fee Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

REQUEST FOR INITIALED PTO-1449 FORM

Sir:

On October 1, 2003, Applicants filed an Information Disclosure Statement, and on March 3, 2005, Applicants filed a supplemental Information Disclosure Statement in the above-captioned matter.

Applicants note that initialed PTO-1449 forms have never been returned. Accordingly, Applicants respectfully request that the Examiner initial the space adjacent to the citations and return a signed and initialed copy of the Form PTO-1449 Form to the Applicant's representative as soon as possible.

For the convenience of the Examiner, Applicants are submitting herewith:

- 1. A copy of the Information Disclosure Statement filed October 1, 2003 and the Forms PTO-1449 filed therewith;
- 2. A copy of the supplemental Information Disclosure Statement filed March 3, 2005, and the Forms PTO-1449 filed therewith;
- 3. Copies of each of the respective date-stamped mailroom receipts evidencing the filing of the same.

Should there be any questions, the Examiner is invited to contact the undersigned at the below-listed telephone number.

Respectfully submitted,

Hae-Chan Park

Reg. No. 50,114

Date: March 14, 2005

McGuireWoods LLP 1750 Tysons Boulevard Suite 1800 McLean, VA 22102-4215

Tel: 703-712-5365 Fax: 703-712-5280

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Res	pectfully submitted, PERS BIGEL SIBLEY & SAJOVEC, P.A.
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Serial No.:

Soo-Guy RHO, et al.

Filing Date:

10/676,667

October 1, 2003

Confirmation No. 8980

For:

LIQUID CRYSTAL DISPLAY AND LIQUID CRYSTAL DISPLAY SUBSTRATES USING AN

ORGANIC INSULATING MATERIAL

Group Art.: Examiner: Atty. Docket:

Date:

T. Chowdhury

March 3, 2005

6192.0356.C3

2871

Commissioner for Patents:

Please place the Patent Office receipt stamp hereon to acknowledge receipt of the following:

An Information Disclosure Statement;

A 1449 Form along with a copy of the cited references; 2.

Check in the amount of \$180.00; and

One acknowledgement postcard.

Hae-Chan Park/tjs Registration No. 50,114

HAND DELIVER

Inventors:

Soo-Guy RHO, et al.

Serial No.:

10/676,667

Filing Date:

October 1, 2003

Confirmation No. 8980

For:

LIQUID CRYSTAL DISPLAY AND LIQUID CRYSTAL DISPLAY SUBSTRATES USING AN

ORGANIC INSULATING MATERIAL

Date:

March 3, 2005

Group Art.:

2871

Examiner:

T. Chowdhury

Atty. Docket:

6192.0356.C3

Commissioner for Patents:

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Hae-Chan Park/tjs Registration No. 50,114